State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-140

Relating to Certification of New Medium-Duty Vehicle Engines

CUMMINS ENGINE COMPANY, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 1996 model-year Cummins Engine Company, Inc. diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) of 8,501 to 14,000 pounds:

Fuel Type: Diesel

Engine Family	Engine Displacement <u>Liters (Cubic Inches)</u>		Exhaust Emission Control Systems and Special Features		
TCE359D6D1AA (403I)	5.9	(359)	Exhaust Gas Recirculation Oxidation Catalytic Converter Turbocharger Charge Air Cooler		

Engine models and codes are listed on attachments.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

Non-Methane Hydrocarbons <u>+ Nitrogen Oxides</u>	Carbon <u>Monoxide</u>	<u>Particulates</u>
3.9	14.4	0.10

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

Engine Family	Non-Methane Hydrocarbons + Nitrogen Oxides	Carbon <u>Monoxide</u>	<u>Particulates</u>
TCE359D6D1AA (403I)	3.8	0.8	0.09

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional standards and test procedures applicable to incomplete and diesel medium-duty vehicles of 8,501 to 14,000 pounds GVWR pursant to Title 13, California Code of Regulations, Section 1956.8(g).

BE IT FURTHER RESOLVED: That the listed engine models shall be subject to the in-use compliance provisions applicable to 1995 and subsequent modelyear medium-duty vehicles set forth in Title 13, California Code of Regulations, Section 2139(c).

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed engine models are not subject to the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed engine models have been exempted from the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this

R. B. Symmerfield

Assistant Division Chief Mobile Source Division

day of November 1995.

199<u>6</u> MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET DIESEL MEDIUM-DUTY VEHICLE ENGINES P (CERTIFIED USING HEAVY-DUTY ENGINE TEST PROCEDURES) Page 10F3

			-		(400) 705 05	
Manufacturer:C				-	(403I) TCE 35	•
Engine Config: 1-6						359 CID
Cert Std: Tier-1	X LEV 🗆	ULEV 🗌		_	d Service Class:	
In-Use Stds: Full	In Use 🔲 💮 Ali	In Use 🛚		Max Rated Pov	ver: <u>180</u> HP	@ <u>2500_RPM</u>
All Eng Codes in E	ing Family: CA		s 🗆	S	tokes/Cycle:	4
Ignition: Compres	s 🛮	Co	ompress w/Glow	Plug 🔲		Spark 🗌
Fuel Type(s): Ded	icated 🗆 💮 F	lex-Fuel 🔲	Dual-Fuel 🗌	Bi-Fuel 🔲	Diesel 🛛	CNG □
LNO	G □ LPG □	M85 🔲 M10	00 🔲 Other (s	pecify)		
Emiss Test Fuel(s)	: Diesel: 13 0	CR 2282 🛛	40 CFR 8	36.1313-90 🔲	40 CFF	R 86.1313-94 🔲
	CNG 🔲 LPC	G ☐ M85 ☐	M100 ☐ Of	ther (specify)		
Exhaust ECS (e.g.	, OC, TWX, PTC	X, IFI, TC, CAC): <u>TC , (</u>	CAC, OC. EGR	1	
, 3			(Use abbr	eviatíons per S A	LE J1930 SEP9	1)
		Fuel Rate				PTOX /
Engine Model	Rated HP	@ Rated HP	Fuel Pump	ECM/PCM	EGR	Catalytic
(Eng Code)	@ RPM	mm³/stroke (lbs/hr)	& Injector Part No.	Part No.	Valve Part No.	Converter Part No.
						222222
B5.9-180	180 @ 2500	88 (74)	FP:3921920 IN:3926818	N/A	3928655	3926233 3929433
(1863)	ļ		114.0020010			33_3 .33
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Date Issued:

Revisions: